

## Assoc. Prof. Yasin KARAGÖZ

### Personal Information

**Email:** yasin.karagoz@yildiz.edu.tr

**Web:** <https://avesis.yildiz.edu.tr/ykaragoz>

### Education Information

Doctorate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği/Enerji, Turkey 2012 - 2017

Postgraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği/Enerji, Turkey 2010 - 2012

Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği, Turkey 2005 - 2009

### Research Areas

Mechanical Engineering, Machine Theory and Dynamics, Vehicle Systems Dynamics, Thermodynamics, Fuels and Combustion, Internal Combustion Engines, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği, 2011 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The Effect of Converting a Conventional Tractor into a Hybrid Drive Tractor Using the ECMS Method on Fuel Consumption and Emissions**  
Ozturk M., SANDALCI T., Buyuk C., Guclu M., Karagoz Y.  
International Journal of Energy Research, vol.2024, 2024 (SCI-Expanded)
- II. **Performance analysis of a hybrid lightweight vehicle with downsized engine**  
Karagöz Y., Balcı Ö., Gezer O., Kale S., Köten H.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.42, pp.1513-1525, 2020 (SCI-Expanded)
- III. **Investigation of hydrogen usage on combustion characteristics and emissions of a spark ignition engine**  
Karagöz Y., Balcı Ö., Köten H.  
International Journal of Hydrogen Energy, vol.44, pp.14243-14256, 2019 (SCI-Expanded)
- IV. **Effect of hythane enrichment on performance, emission and combustion characteristics of an ci engine**  
SANDALCI T., İŞİN Ö., Galata S., Karagoz Y., GULER I.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.5, pp.3208-3220, 2019 (SCI-Expanded)
- V. **Electronic control unit development and emissions evaluation for hydrogen diesel dual-fuel engines**  
Karagoz Y., Sadeghi M. M.

ADVANCES IN MECHANICAL ENGINEERING, vol.10, no.12, 2018 (SCI-Expanded)

- VI. **Effect of hydrogen addition using on-board alkaline electrolyser on SI engine emissions and combustion**  
Karagoz Y., Balcı O., Orak E., Habib M. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, pp.11275-11285, 2018 (SCI-Expanded)
- VII. **Effect of hydrogen-diesel dual-fuel usage on performance, emissions and diesel combustion in diesel engines**  
Karagoz Y., Sandalci T., Yüksek L., Dalkılıç A. S., Wongwises S.  
ADVANCES IN MECHANICAL ENGINEERING, vol.8, no.8, 2016 (SCI-Expanded)
- VIII. **Effect of the use of natural gas diesel fuel mixture on performance emissions and combustion characteristics of a compression ignition engine**  
KARAGÖZ Y., SANDALCI T., KÖYLÜ Ü., DALKILIÇ A. S., WONGWİSES S.  
ADVANCES IN MECHANICAL ENGINEERING, vol.8, pp.1-13, 2016 (SCI-Expanded)
- IX. **Effects of hydrogen and methane addition on combustion characteristics, emissions, and performance of a CI engine**  
Karagoz Y., Guler I., Sandalci T., Yüksek L., Dalkılıç A. S., Wongwises S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.2, pp.1313-1325, 2016 (SCI-Expanded)
- X. **Effect of hydrogen enrichment on combustion characteristics, emissions and performance of a diesel engine**  
Karagoz Y., Güler I., Sandalci T., Yüksek L., Dalkılıç A. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.1, pp.656-665, 2016 (SCI-Expanded)
- XI. **Effects of hydrogen and oxygen enrichment on performance and emissions of an SI engine under idle operating condition**  
Karagoz Y., SANDALCI T., DALKILIÇ A. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.28, pp.8607-8619, 2015 (SCI-Expanded)
- XII. **Effect of hydrogen and oxygen addition as a mixture on emissions and performance characteristics of a gasoline engine**  
KARAGÖZ Y., YUCA N., SANDALCI T., DALKILIÇ A. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.28, pp.8750-8760, 2015 (SCI-Expanded)
- XIII. **Engine performance and emission effects of diesel burns enriched by hydrogen on different engine loads**  
Karagoz Y., Sandalci T., Yüksek L., Dalkılıç A. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.20, pp.6702-6713, 2015 (SCI-Expanded)
- XIV. **EFFECT OF HYDROGEN ENRICHED DIESEL COMBUSTION ON EMISSIONS AND ENGINE PERFORMANCE AT PARTIAL LOAD**  
Sandalci T., Karagoz Y.  
Isi Bilimi Ve Teknigi Dergisi-Journal Of Thermal Science And Technology, vol.35, pp.107-117, 2015 (SCI-Expanded)
- XV. **EFFECT OF HYDROGEN ADDITION ON EXHAUST EMISSIONS AND PERFORMANCE OF A SPARK IGNITION ENGINE**  
Karagoz Y., Orak E., Yüksek L., Sandalci T.  
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.14, no.3, pp.665-672, 2015 (SCI-Expanded)
- XVI. **An experimental investigation on the performance characteristics of a hydroxygen enriched gasoline engine with water injection**  
Karagoz Y., Yüksek L., Sandalci T., Dalkılıç A. S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.1, pp.692-702, 2015 (SCI-Expanded)
- XVII. **EFFECT OF HYDROGEN ENRICHED DIESEL COMBUSTION ON EMISSIONS AND ENGINE PERFORMANCE AT PARTIAL LOAD CONDITIONS**  
SANDALCI T., Karagoz Y.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.35, no.2, pp.107-117, 2015 (SCI-Expanded)
- XVIII. **Experimental investigation of the combustion characteristics, emissions and performance of**

### **hydrogen port fuel injection in a diesel engine**

SANDALCI T., Karagoz Y.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.39, no.32, pp.18480-18489, 2014 (SCI-Expanded)

### **XIX. An Experimental Investigation of Ethanol-Diesel Blends on Performance and Exhaust Emissions of Diesel Engines**

Sandalcı T., Karagoz Y., Orak E., Yüksek L.

ADVANCES IN MECHANICAL ENGINEERING, 2014 (SCI-Expanded)

## **Articles Published in Other Journals**

### **I. EFFECT OF DIFFERENT LEVELS OF HYDROGEN**

KARAGÖZ Y., KÖTEN H.

JOURNAL OF THERMAL ENGINEERING, vol.5, no.2, pp.58-69, 2019 (ESCI)

### **II. EFFECT OF HYDROGEN ADDITION AT DIFFERENT LEVELS ON EMISSIONS AND PERFORMANCE OF A DIESEL ENGINE**

Karagoz Y.

JOURNAL OF THERMAL ENGINEERING, vol.4, no.2, pp.1780-1790, 2018 (ESCI)

## **Refereed Congress / Symposium Publications in Proceedings**

### **I. EFFECT OF VARIOUS LEVELS OF HYDROGEN ADDITION ON CI ENGINE PERFORMANCE AND COMBUSTION CHARACTERISTICS**

KARAGÖZ Y.

ICAME 2018 (4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2018, 19-21 DECEMBER 2018), İstanbul, Turkey, 19 December 2018, vol.1, no.1, pp.1254-1280

### **II. Investigation of Hydrogen Usage on Combustion Characteristics and Emissions of A Spark Ignition Engine**

KARAGÖZ Y., BALCI Ö., KÖTEN H.

ECRES 2018 (THE 6TH EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS Istanbul/Turkey 25-27 June 2018), İstanbul, Turkey, 25 June 2018, pp.662-673

### **III. Effect of Different Levels of Ethanol Addition on Performance, Emission and Combustion Characteristics of A Gasoline Engine**

KÖTEN H., KARAGÖZ Y., BALCI Ö.

ECRES 2018 (THE 6TH EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS Istanbul/Turkey 25-27 June 2018), İstanbul, Turkey, 25 June 2018, pp.674-685

### **IV. EMISSIONS AND PERFORMANCE CHARACTERISTICS OF AN SI ENGINE WITH BIOGAS FUEL AT DIFFERENT CO<sub>2</sub> RATIOS**

KARAGÖZ Y., KALE S.

ICPAT 2018 (PROCEEDINGS BOOK OF INTERNATIONAL CONFERENCE ON PROGRESSES IN AUTOMOTIVE TECHNOLOGIES 2018), İstanbul, Turkey, 10 May 2018, pp.93-105

### **V. EFFECT OF DIFFERENT LEVELS OF HYDROGEN LPG ADDITION ON EMISSIONS AND PERFORMANCE OF A COMPRESSION IGNITION ENGINE**

KARAGÖZ Y., KÖTEN H.

ICPAT 2018 (PROCEEDINGS BOOK OF INTERNATIONAL CONFERENCE ON PROGRESSES IN AUTOMOTIVE TECHNOLOGIES 2018), İstanbul, Turkey, 10 May 2018, pp.106-115

### **VI. EFFECT OF DIFFERENT HYDROGEN ADDITION ON PERFORMANCE, EMISSIONS AND COMBUSTION**

KARAGÖZ Y.

3rd CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017 ICAME2017, 19 - 21 December 2017

- VII. **EFFECT OF USING ETHANOL-DIESEL MIXTURE ON PERFORMANCE AND EMISSIONS OF A DIESEL ENGINE**  
 KARAGÖZ Y., SANDALCI T.  
 1st INTERNATIONAL CONFERENCE ON PROGRESS IN APPLIED SCIENCE, 4 - 06 January 2017
- VIII. **MODELING AND ANALYZING OF DIESEL ENGINE USING COMPUTATIONAL FLUID DYNAMICS**  
 ABAY K., ÇOLAK Ü., YÜKSEK L., KARAGÖZ Y.  
 1th INTERNATIONAL CONFERENCE ON ADVANCES IN AUTOMOTIVE TECHNOLOGIES, İstanbul, Turkey, 11 - 14 October 2016, vol.1, pp.300-313
- IX. **An experimental investigation on the use of natural gas diesel fuel mixture on performance and emissions of a CI engine**  
 Karagöz Y., Sandalci T., Işın Ö., Dalkılıç A. S.  
 International Conference on Mechanical and Production Engineering, Bangkok, Thailand, 13 - 14 July 2016, pp.1-15
- X. **EXPERIMENTAL INVESTIGATION OF HYDROGEN ENRICHED CHARGE WITH DIESEL IGNITION ON ENGINE PERFORMANCE AND CO EMISSION**  
 KARAGÖZ Y.  
 2ND INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 11 - 13 May 2016, vol.1, pp.891-896
- XI. **EFFECT OF HYDROGEN ENRICHMENT ON PERFORMANCE AND EMISSIONS OF A DIESEL ENGINE AT DIFFERENT ENGINE LOADS**  
 KARAGÖZ Y., SANDALCI T.  
 CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2016 – ICAME2016, 11 - 13 May 2016
- XII. **EFFECT OF HYDROGEN AND OXYGEN ADDITION ON PERFORMANCE AND NOX EMISSIONS OF AN SI ENGINE WITH WATER INJECTION**  
 KARAGÖZ Y.  
 2ND INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 11 - 13 May 2016, vol.1, pp.906-916
- XIII. **EFFECT OF DIFFERENT LEVEL HYDROGEN ADDITION ON PERFORMANCE AND EMISSIONS OF AN CI ENGINE**  
 KARAGÖZ Y., SANDALCI T.  
 CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2016 – ICAME2016, 11 - 13 May 2016
- XIV. **EFFECT OF USING NATURAL GAS DIESEL FUEL MIXTURES ON PERFORMANCE AND EMISSIONS OF A COMPRESSION IGNITION ENGINE**  
 KARAGÖZ Y., ÖZENER O., SANDALCI T.  
 INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL 2015 - ICES'xx1523-25 December 2015, Yildiz Technical University, Istanbul, Turkey, 23 - 25 December 2015
- XV. **EXPERIMENTALLY DETERMINATION OF INJECTION CHARACTERISTIC OF A MECHANICAL FUEL SYSTEM EQUIPPED DIESEL ENGINE CONVERTED TO COMMON RAIL FUEL SYSTEM**  
 Tunçer E., Sandalci T., Karagöz Y., Dalkılıç A. S.  
 INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL, İstanbul, Turkey, 23 - 25 December 2015, pp.1-15
- XVI. **EFFECTS OF HYDROGEN ENRICHMENT ON PERFORMANCE AND EMISSION CHARACTERISTICS OF AN SI ENGINE AT IDLE CONDITION**  
 KARAGÖZ Y.  
 INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL 2015 (ICES 2015), İstanbul, Turkey, 23 - 25 November 2015, pp.1010-1016
- XVII. **EFFECT OF FUEL TEMPERATURE ON PERFORMANCE AND EMISSIONS OF A COMPRESSION IGNITION ENGINE**  
 Karagöz Y., Guler İ., Duymaz G., Yüksek L., Sandalci T., Dalkılıç A. S.  
 INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL, İstanbul, Turkey, 23 - 25 December 2015, pp.1-15
- XVIII. **EFFECT OF USING NATURAL GAS DIESEL FUEL MIXTURE ON PERFORMANCE AND EMISSIONS OF A**

### **COMPRESSION IGNITION ENGINE**

KARAGÖZ Y., ÖZENER O., SANDALCI T.

INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL, 23 - 25 December 2015

### **XIX. EFFECT OF HYDROGEN METHANE ADDITION ON PERFORMANCE AND EMISSIONS OF A DIESEL ENGINE**

KARAGÖZ Y.

INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL 2015 (ICES 2015), İstanbul, Turkey, 23 - 25 December 2015, pp.1002-1009

### **XX. BİODİZEL/SU EMÜLSİYONLARININ TEK SİLİNDİRLİ CFR MOTORUNUN PERFORMANS VE EMİSYONLARINA ETKİSİNİN ARAŞTIRILMASI**

ORAK E., KARAGÖZ Y., AKGÜN N., ÖZKAN M.

12. Uluslararası Yanma Sempozyumu (ICS 2012), 01 May 2012

## **Activities in Scientific Journals**

Journal of Thermal Engineering, Assistant Editor/Section Editor, 2017 - Continues

## **Scientific Refereeing**

SİGMA, Other Indexed Journal, December 2017

FUEL, SCI Journal, August 2017

Journal of ETA Maritime Science, Other Indexed Journal, August 2017

Journal of Thermal Engineering, National Scientific Refreed Journal, July 2017

Journal of Thermal Engineering, Other Indexed Journal, February 2016

SAE International, Other Indexed Journal, January 2016

## **Metrics**

Publication: 41

Citation (WoS): 523

Citation (Scopus): 740

H-Index (WoS): 13

H-Index (Scopus): 13